## Math 212 Quiz 27

W 02 Nov 2016

Your name:	

## Exercise

(2 pt) Let  $f: \mathbb{R}^2 \to \mathbb{R}$  be continuous (so that Fubini's theorem applies). Change the order of integration of the following iterated integrals. *Hint:* Sketch each region of integration.

(a) 
$$(1 \text{ pt}) \int_0^1 \int_0^{2y} f(x,y) \, dx \, dy$$

(b) 
$$(1 \text{ pt}) \int_0^9 \int_{\frac{1}{3}y}^{\sqrt{y}} f(x,y) \, dx \, dy$$